

STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL AND GAS  
GEOPHYSICAL EXPLORATION PERMIT

Permit # \_\_\_\_\_  
**OFFICIAL USE ONLY**  
(rev 4/6/99)

Applicant/Permittee: Apache Alaska Corporation - Lisa Parker

Address: 2000 Post Oak Blvd Suite 100  
Houston, Texas 77056

Phone: 907-262-5722  
~~Fax:~~ 907-398-1883 (call)

Contractor: Northern Exploration Services

Phone: 907.522.4499  
Fax: 907.522.4498

Contact: Rick Trupp  
Address: 8240 Sandlewood Pl Suite 102  
Anchorage, Alaska 99507

Title: Permits Coordinator Contractor  
Phone: 907-522-4499  
Fax: 907-522-4498

General Location: Cook Inlet uplands, inter-tidal and offshore - see attached list

Period Requested: From: September 1, 2011 To: August 31, 2014

Geophysical Technique: Seismic (complete below) ☐ Other (attached description)

A) Marine: Vessel Name: Peregrine Falcon, Miss Diane, Maxime, Dream Catcher, 2 bowpickers  
Registered Owner: Various vessel captains  
Official Number: See Plan of Operations  
Radio Call Number: \_\_\_\_\_

Airguns: Total cubic inches (ci) in array: 440 - 2400 cu in.  
Maximum Operating Pressure: 1,000 - 5,000  
Minimum Water Depth: \_\_\_\_\_  
Streamer Length: N/A

Other Energy Source: \_\_\_\_\_ (attach description)

B) Uplands: ☐ Vibroseis: ☒ Track Mounted ☐ Wheel Mounted  
☒ Shallow Hole: Hole Depths 35'  
☐ Surface Shot: Charge Heights Bottom Hole  
Explosives: Type: Pentolite cut to fit  
Lbs/Shot/Hole: 4.4 kg Distance Between Charges 165'  
Number of Helicopters 2 Fixed Wing Aircraft 1

C) Number of line miles (2D) \_\_\_\_\_ and/or square miles (3D) to be acquired: 400 sq mi per year

D) Line Location Map: The applicant is required to submit a map(s) showing the exact location of all proposed seismic lines. The applicant may request that this map be maintained confidential as provided in AS 38.05.035(a)(8). Do you request confidentiality? Yes ☒ No ☐

**Housing for Project Personnel:**

A) Housing type: ☒ Existing Facilities West Forelands Camp Facilities & Existing accommodations in Communities  
☐ Temporary Camp, please describe \_\_\_\_\_

- B) Number of Personnel: 25 - 50  
C) Drinking Water Supply: Supplied at camp facilities or accommodations complex  
D) Disposal of Solid Wastes: Taken to approved disposal site  
E) Disposal of Liquid Wastes: Taken to approved disposal site

**Fuel Storage:**

- A) Type of Fuel: Diesel & gasoline Amount Stored 6,000 gallons  
C) Method of Storage/Containment: Fuel bladders with 110% containment  
D) Location of Stored Fuel: staging locations throughout project


**Surface Travel:**

- A) The applicant must provide a list of all surface contact vehicles to be used.  
B) Will use of this equipment require clearing of vegetation? No if yes, describe method and amount of clearing required. \_\_\_\_\_  
C) Will river crossings be required? Yes if yes, list major drainages. See attached list

**Indemnity:** Amount: \$100,000 & \$500,000 Bond ID Number 6732062 & 6732063  
Bonding Company: Safeco Insurance Company of American Type: X Statewide Bond  
Address: 1001 4th Avenue, Suite 1700 \_\_\_\_\_ Single Program  
Seattle, WA 98514

The applicant agrees that operations shall be conducted in conformance with applicable Federal, State and local laws and regulations now, or hereafter, in effect during the life the permit. The applicant agrees that operations shall be conducted in strict compliance with the provisions of the Alaska Miscellaneous Land Use Regulations, and permit stipulations.

The applicant certifies that he has read and is familiar with the Alaska Miscellaneous Land Use Regulations.

Signature:  Date 2 August 2011  
Print Name Lisa Parker  
Title Agent for Apache

DO NOT WRITE BELOW THIS LINE

**LAND USE PERMIT**

The DIVISION OF OIL AND GAS grants to \_\_\_\_\_ the right to use State of Alaska lands, as described in this application, subject to 11 AAC 96.010 thru 96.250, Miscellaneous Land Use Regulations, and the attached stipulations.

Effective dates for permit: \_\_\_\_\_ to \_\_\_\_\_

STATE OF ALASKA

BY: \_\_\_\_\_ Date \_\_\_\_\_  
TITLE: \_\_\_\_\_